

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022222\  
 Data File : VN071027.D  
 Acq On : 22 Feb 2022 14:47  
 Operator : JC\MD  
 Sample : PB142839ZHE#01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB142839ZHE#01

Quant Time: Feb 23 00:59:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 07:57:15 2022  
 Response via : Initial Calibration

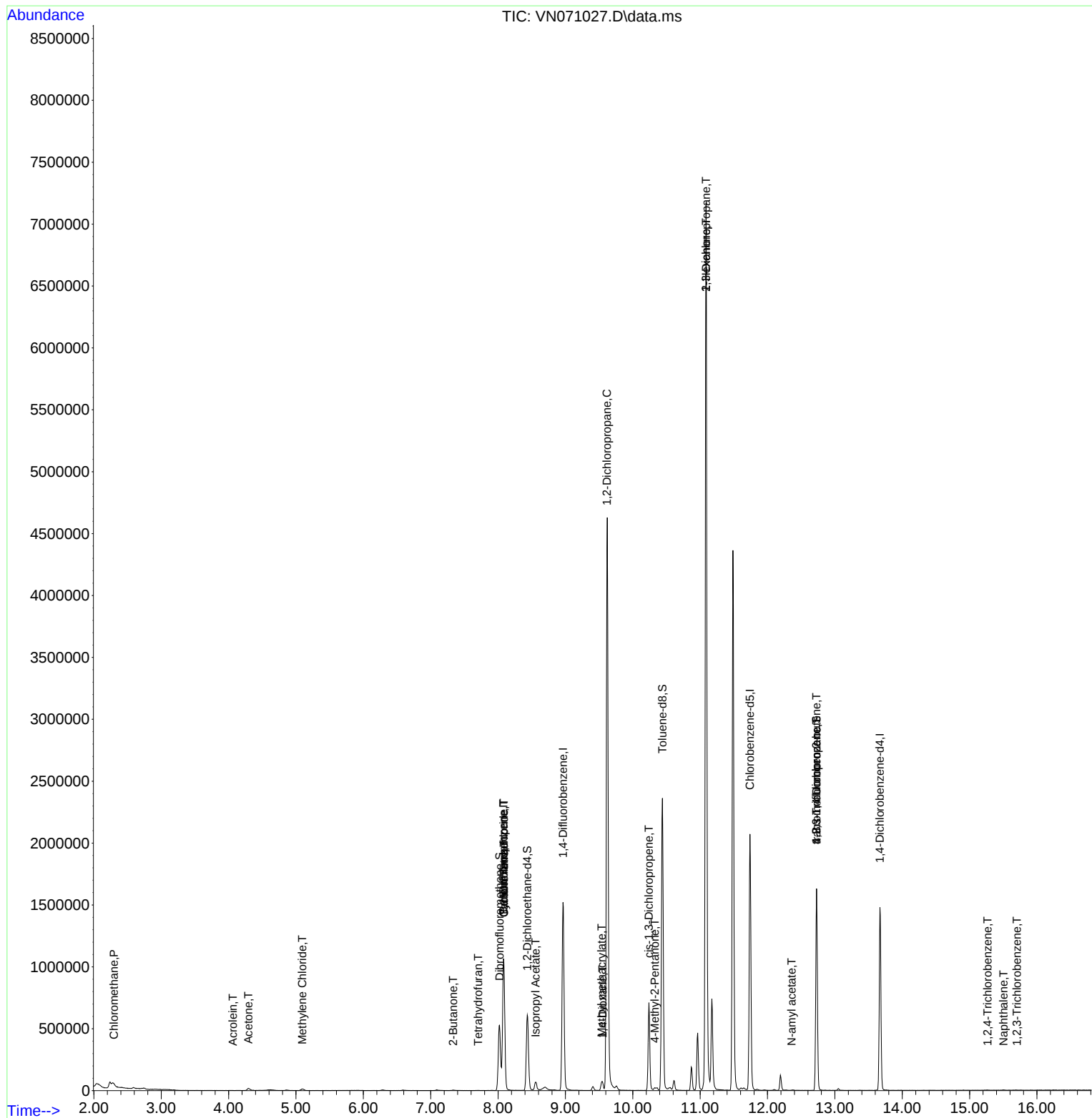
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 8.081          | 168  | 853119              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963          | 114  | 1344864             | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739         | 117  | 1211993             | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.668         | 152  | 416474              | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.434          | 65   | 508952              | 52.225  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 104.460% |         |        |          |
| 35) Dibromofluoromethane      | 8.022          | 113  | 393926              | 49.245  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 98.500%  |         |        |          |
| 50) Toluene-d8                | 10.439         | 98   | 1668955             | 51.953  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 103.900% |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.727         | 95   | 558925              | 48.676  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 97.360%  |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 3) Chloromethane              | 2.299          | 50   | 3234                | 0.290   | ug/l   | 97       |
| 13) Acrolein                  | 4.063          | 56   | 592                 | 0.373   | ug/l # | 44       |
| 16) Acetone                   | 4.293          | 43   | 27406               | 5.106   | ug/l   | 95       |
| 20) Methylene Chloride        | 5.093          | 84   | 9818                | 1.007   | ug/l # | 87       |
| 25) 2-Butanone                | 7.334          | 43   | 7283                | 1.020   | ug/l   | 90       |
| 29) Tetrahydrofuran           | 7.704          | 42   | 1059                | 0.229   | ug/l # | 66       |
| 31) Cyclohexane               | 8.086          | 56   | 16476               | 0.978   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.081          | 75   | 62689               | 4.783   | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 81955               | 6.347   | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.557          | 43   | 81784               | 3.692   | ug/l # | 90       |
| 45) 1,2-Dichloropropane       | 9.616          | 63   | 6714                | 0.676   | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.539          | 41   | 22238               | 2.121   | ug/l # | 9        |
| 49) 1,4-Dioxane               | 9.551          | 88   | 61                  | 0.328   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.328         | 43   | 14084               | 1.045   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.239         | 75   | 124768              | 7.911   | ug/l # | 59       |
| 57) 1,3-Dichloropropane       | 11.086         | 76   | 76790               | 4.656   | ug/l # | 43       |
| 59) 2-Hexanone                | 11.086         | 43   | 1161467             | 125.289 | ug/l # | 49       |
| 74) N-amyl acetate            | 12.357         | 43   | 3469                | 0.324   | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 12.727         | 75   | 284889              | 29.053  | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727         | 75   | 284889              | 94.144  | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.268         | 180  | 743                 | 2.092   | ug/l # | 80       |
| 95) Naphthalene               | 15.504         | 128  | 2851                | 5.127   | ug/l # | 80       |
| 96) 1,2,3-Trichlorobenzene    | 15.704         | 180  | 874                 | 2.633   | ug/l # | 70       |
| -----                         |                |      |                     |         |        |          |

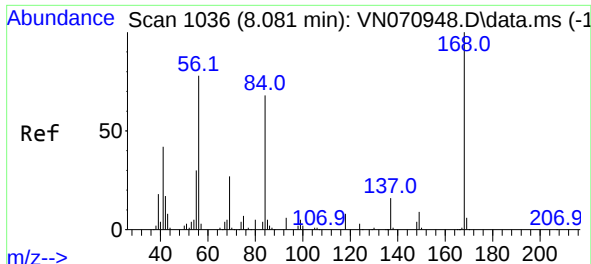
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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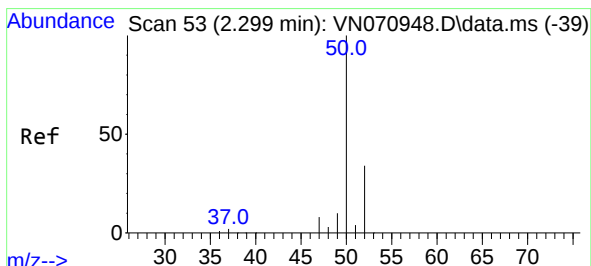
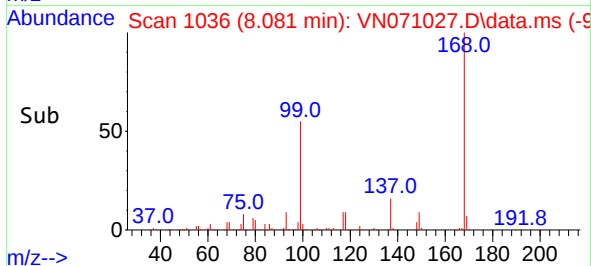
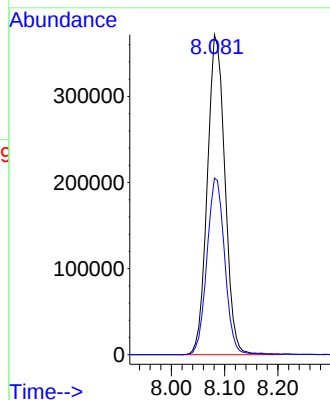
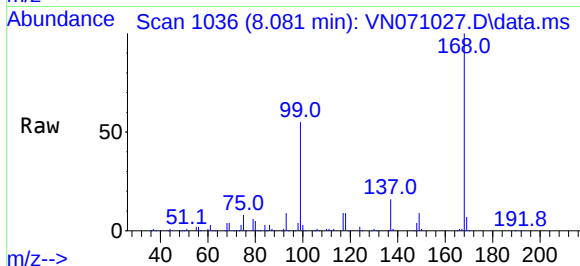




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.000 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

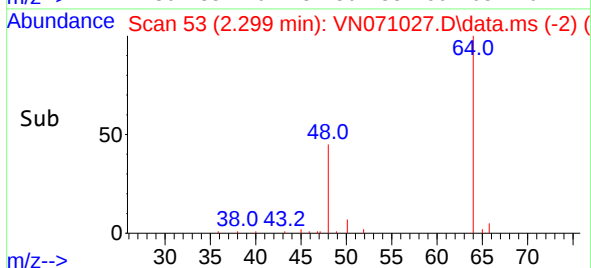
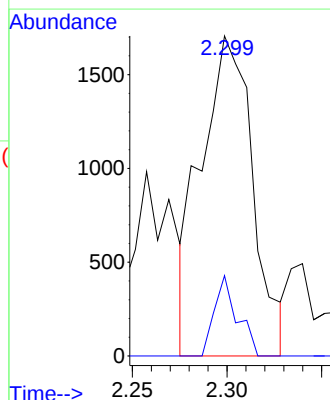
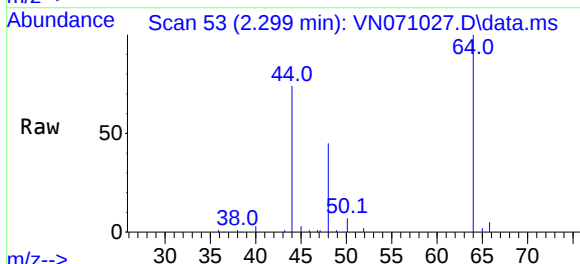
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

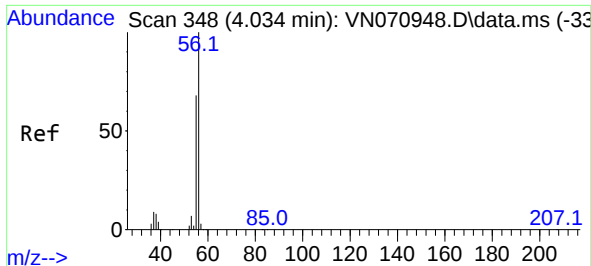
Tgt Ion:168 Resp: 853119  
Ion Ratio Lower Upper  
168 100  
99 55.2 41.3 61.9



#3  
Chloromethane  
Concen: 0.290 ug/l  
RT: 2.299 min Scan# 53  
Delta R.T. 0.000 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion: 50 Resp: 3234  
Ion Ratio Lower Upper  
50 100  
52 30.2 25.4 38.0

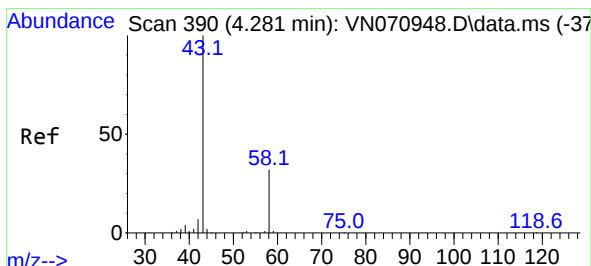
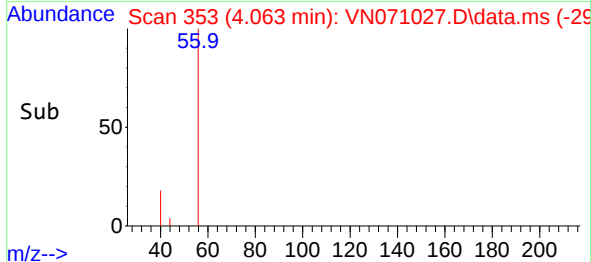
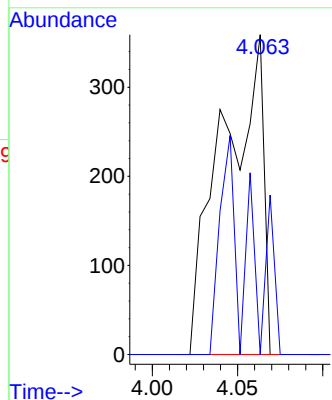
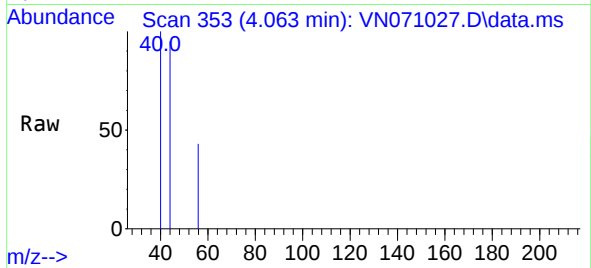




#13  
Acrolein  
Concen: 0.373 ug/l  
RT: 4.063 min Scan# 31  
Delta R.T. 0.029 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

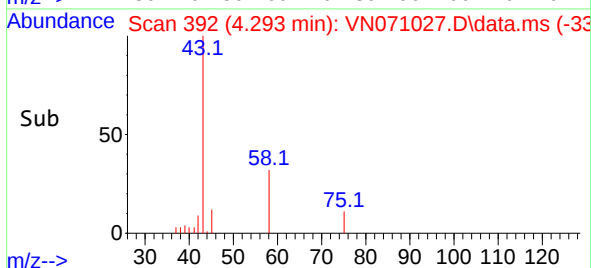
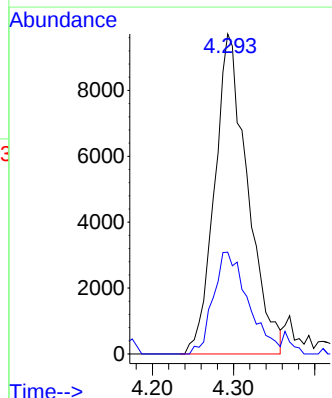
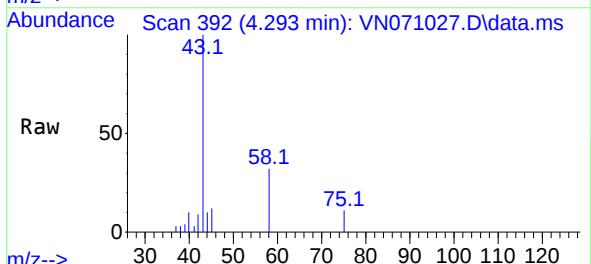
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

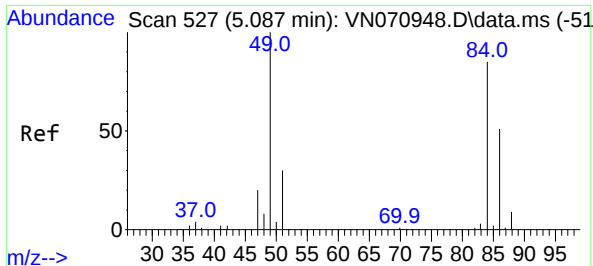
Tgt Ion: 56 Resp: 592  
Ion Ratio Lower Upper  
56 100  
55 24.3 56.6 85.0#



#16  
Acetone  
Concen: 5.106 ug/l  
RT: 4.293 min Scan# 392  
Delta R.T. 0.012 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion: 43 Resp: 27406  
Ion Ratio Lower Upper  
43 100  
58 31.8 23.1 34.7

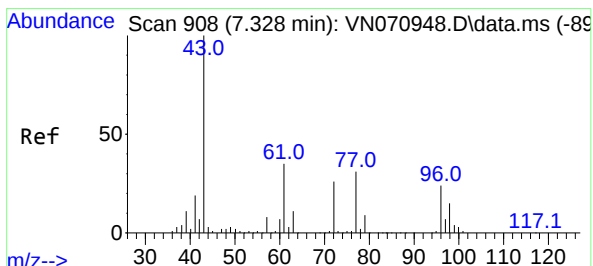
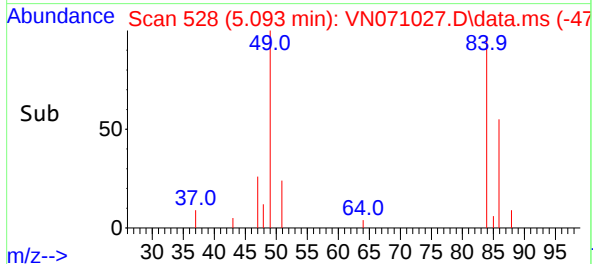
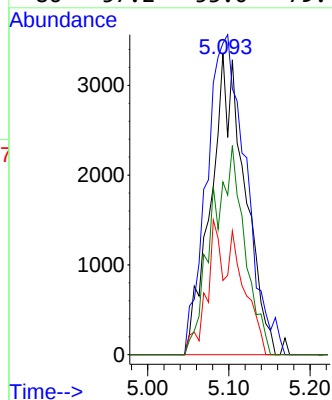
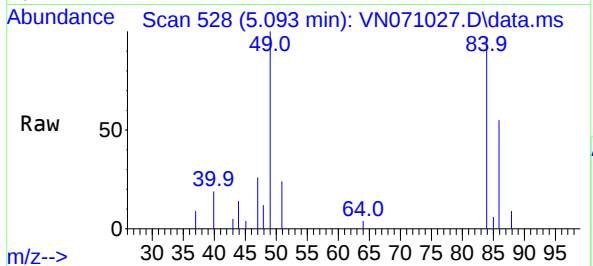




#20  
Methylene Chloride  
Concen: 1.007 ug/l  
RT: 5.093 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

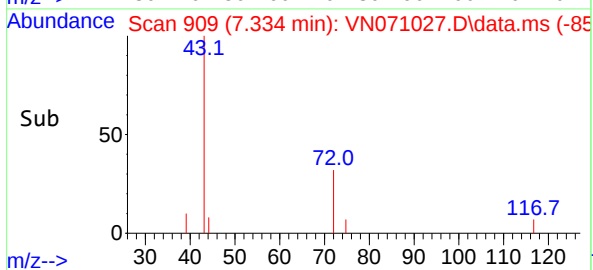
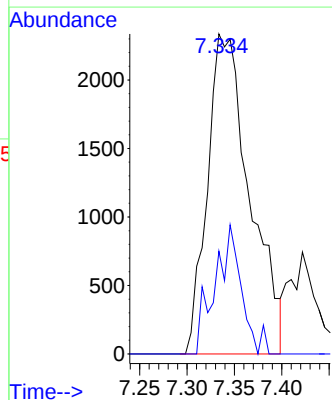
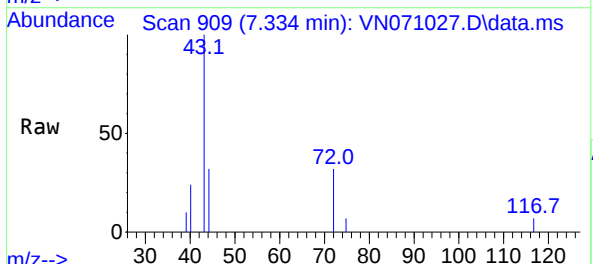
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

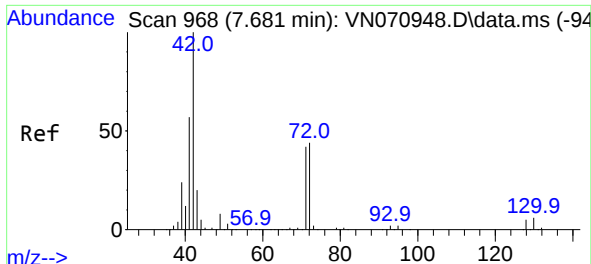
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 9818  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 103.2 | 93.5  | 140.3 |
| 51       | 24.6  | 29.4  | 44.2# |
| 86       | 57.2  | 53.0  | 79.4  |



#25  
2-Butanone  
Concen: 1.020 ug/l  
RT: 7.334 min Scan# 909  
Delta R.T. 0.006 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 7283  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 32.1  | 21.7  | 32.5  |





#29

Tetrahydrofuran

Concen: 0.229 ug/l

RT: 7.704 min Scan# 91

Delta R.T. 0.024 min

Lab File: VN071027.D

Acq: 22 Feb 2022 14:47

Instrument :

MSVOA\_N

ClientSampleId :

PB142839ZHE#01

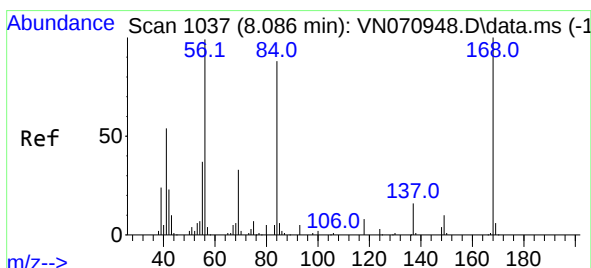
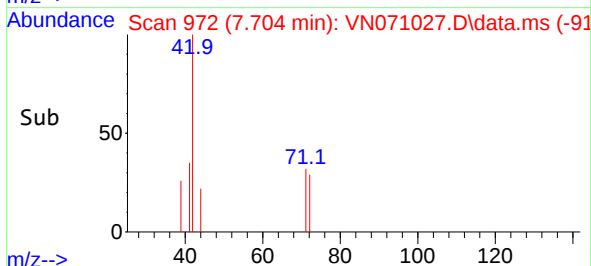
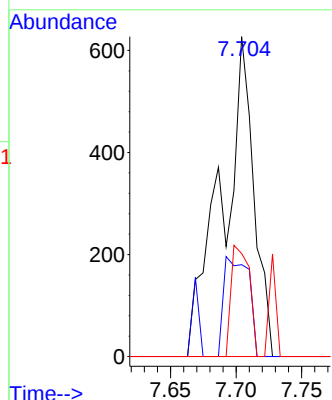
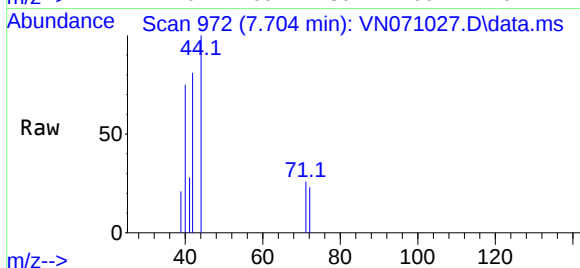
Tgt Ion: 42 Resp: 1059

Ion Ratio Lower Upper

42 100

72 24.2 36.3 54.5#

71 19.8 34.7 52.1#



#31

Cyclohexane

Concen: 0.978 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VN071027.D

Acq: 22 Feb 2022 14:47

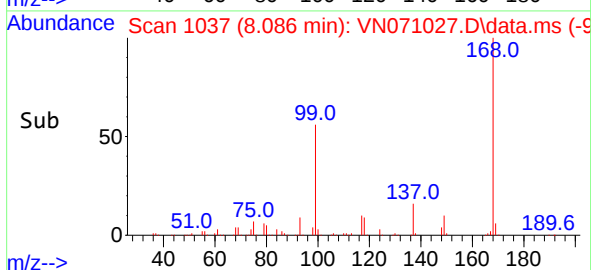
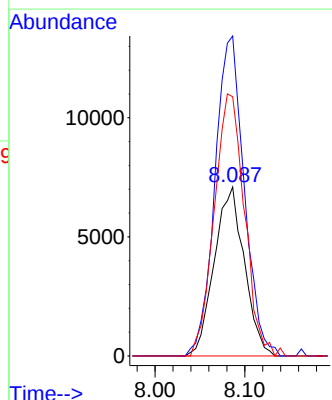
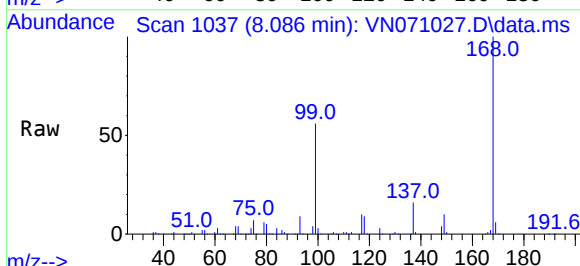
Tgt Ion: 56 Resp: 16476

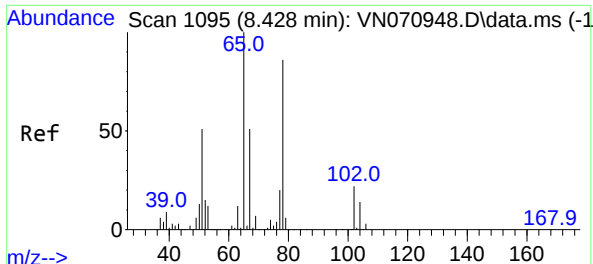
Ion Ratio Lower Upper

56 100

69 189.4 27.1 40.7#

84 153.4 73.4 110.0#

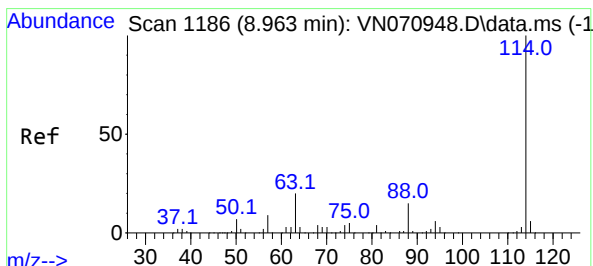
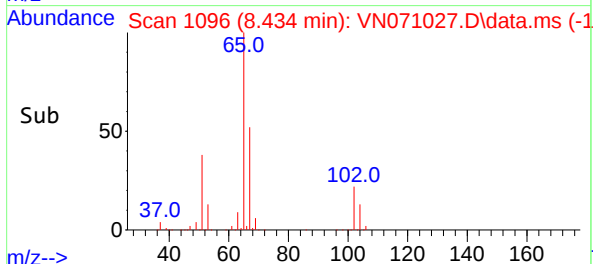
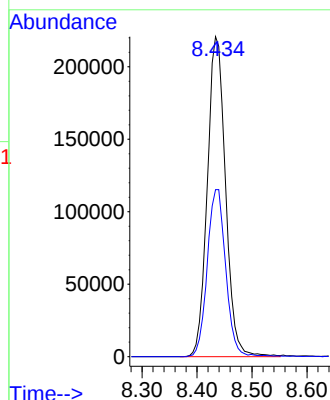
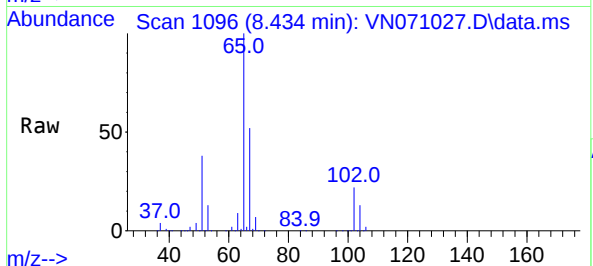




#33  
1,2-Dichloroethane-d4  
Concen: 52.225 ug/l  
RT: 8.434 min Scan# 1095  
Delta R.T. 0.006 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

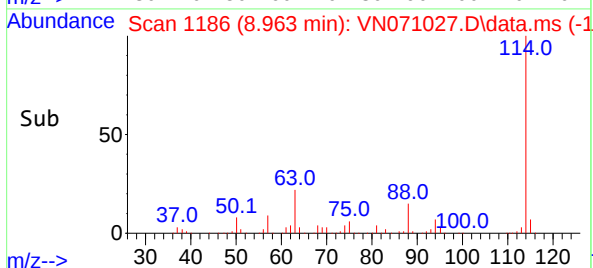
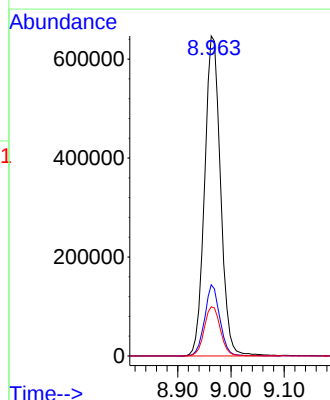
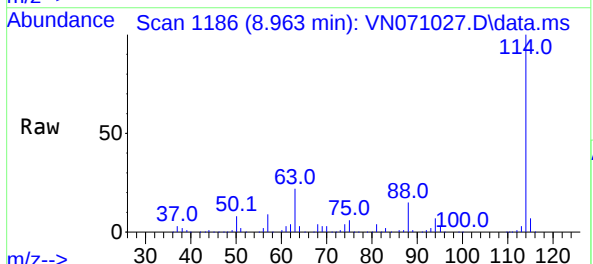
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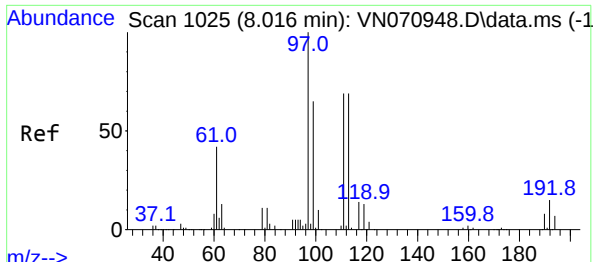
Tgt Ion: 65 Resp: 508952  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 103.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. 0.000 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

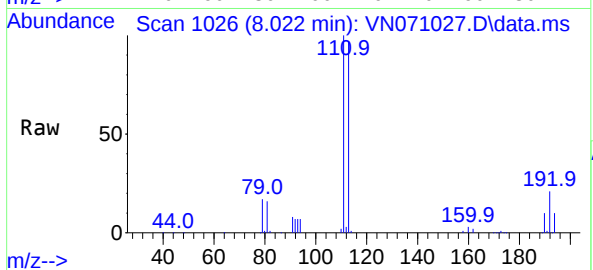
Tgt Ion: 114 Resp: 1344864  
Ion Ratio Lower Upper  
114 100  
63 22.2 0.0 37.8  
88 15.4 0.0 27.4



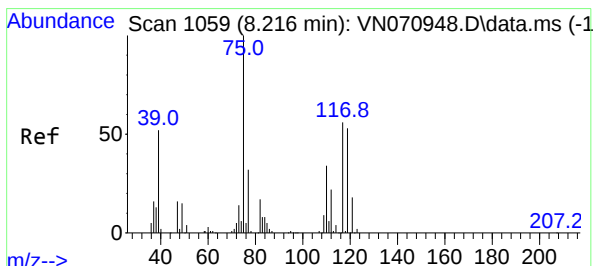
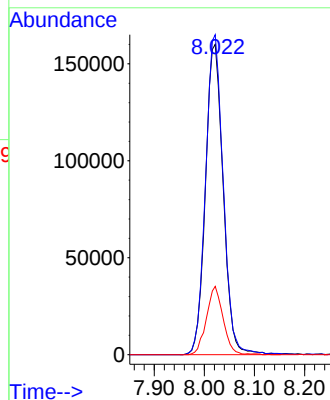
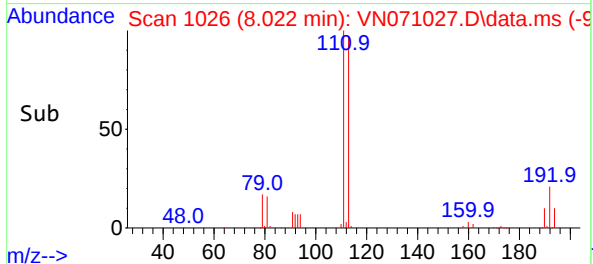


#35  
Dibromofluoromethane  
Concen: 49.245 ug/l  
RT: 8.022 min Scan# 1026  
Delta R.T. 0.006 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

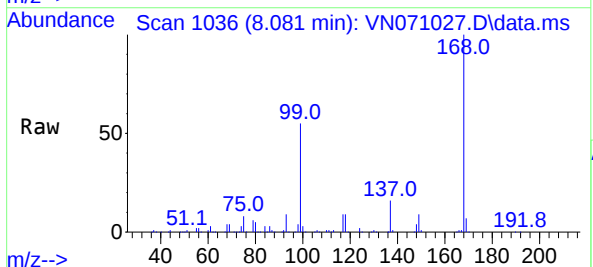
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01



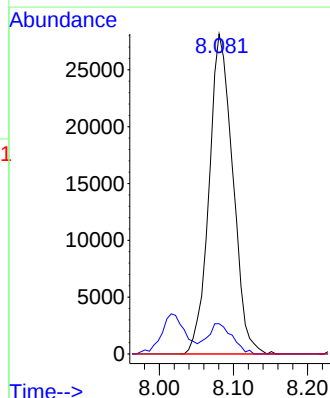
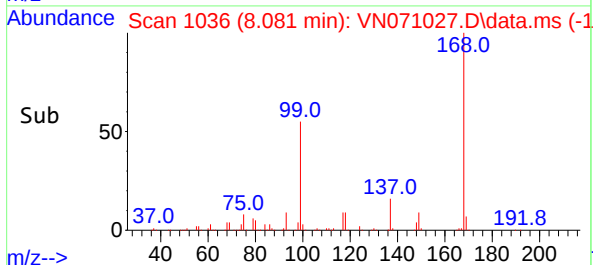
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Ion Ratio Lower Upper  
113 100  
111 102.6 82.2 123.2  
192 20.6 16.9 25.3

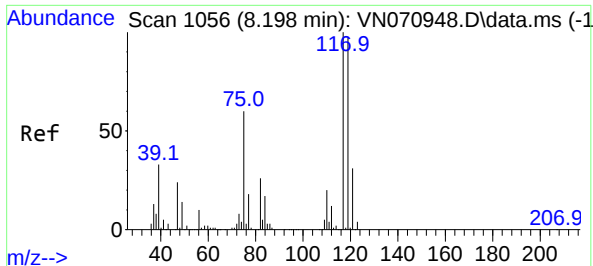


#36  
1,1-Dichloropropene  
Concen: 4.783 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.135 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47



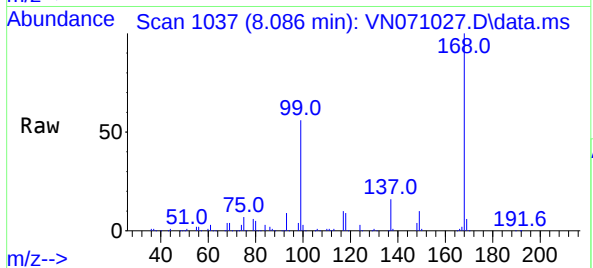
Tgt Ion: 75 Resp: 62689  
Ion Ratio Lower Upper  
75 100  
110 9.9 18.4 55.2#  
77 0.0 24.4 36.6#



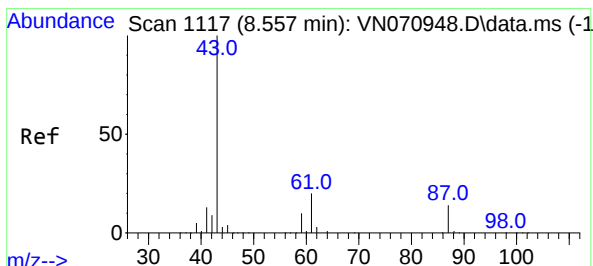
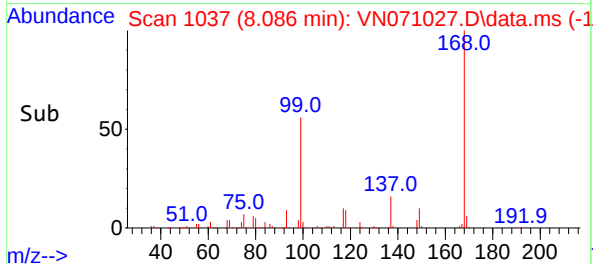
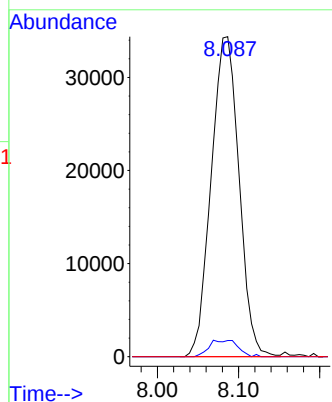


#38  
Carbon Tetrachloride  
Concen: 6.347 ug/l  
RT: 8.086 min Scan# 1056  
Delta R.T. -0.112 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

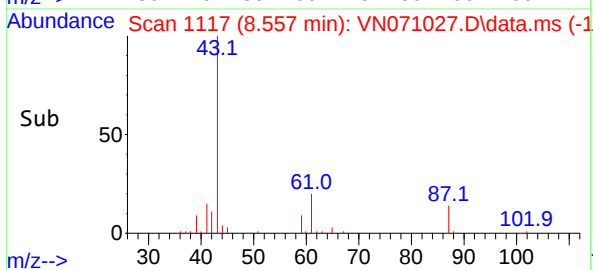
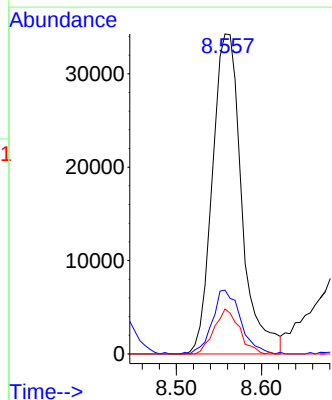
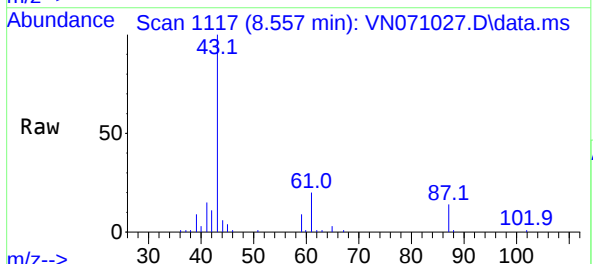


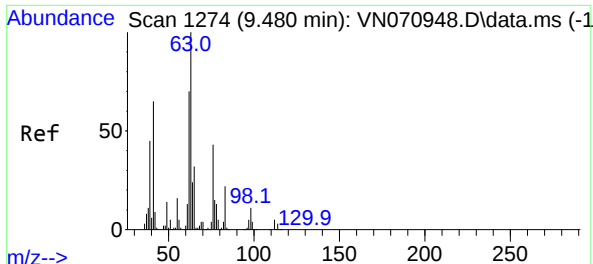
Tgt Ion:117 Resp: 81955  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.1 114.1#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 3.692 ug/l  
RT: 8.557 min Scan# 1117  
Delta R.T. 0.000 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion: 43 Resp: 81784  
Ion Ratio Lower Upper  
43 100  
61 19.2 20.4 30.6#  
87 12.1 11.2 16.8

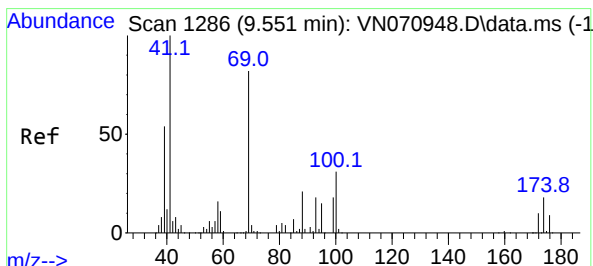
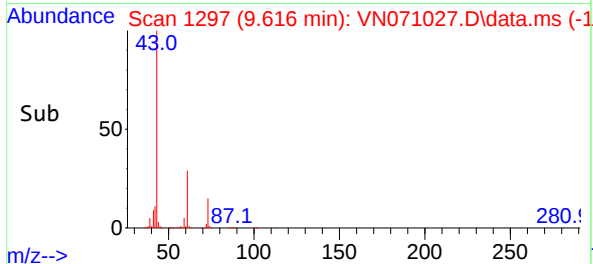
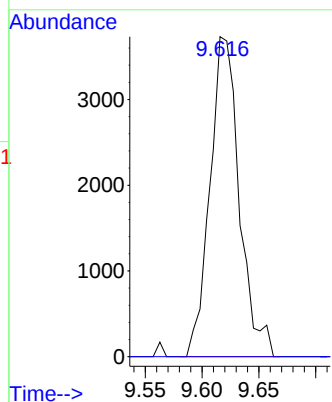
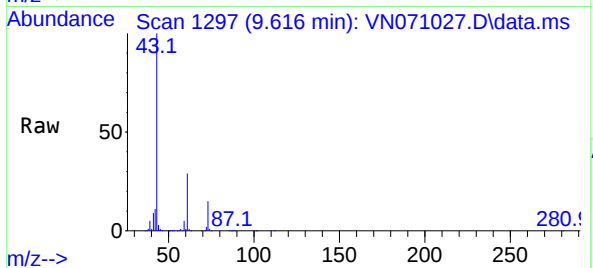




#45  
1,2-Dichloropropane  
Concen: 0.676 ug/l  
RT: 9.616 min Scan# 11  
Delta R.T. 0.135 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

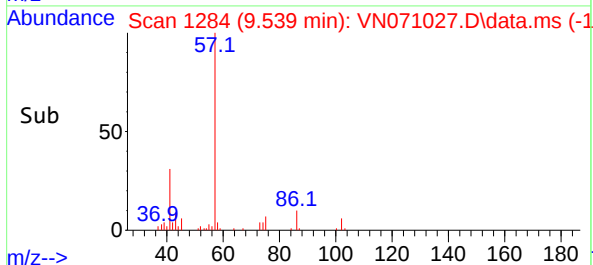
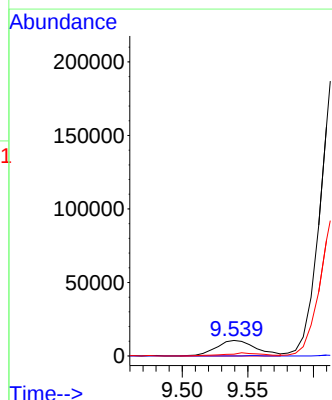
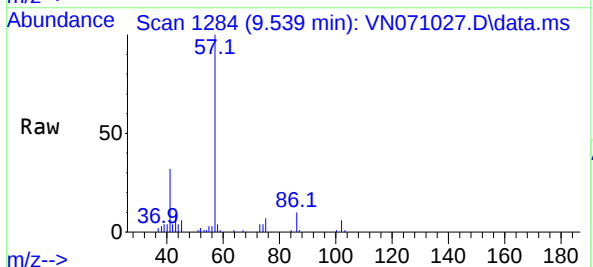
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

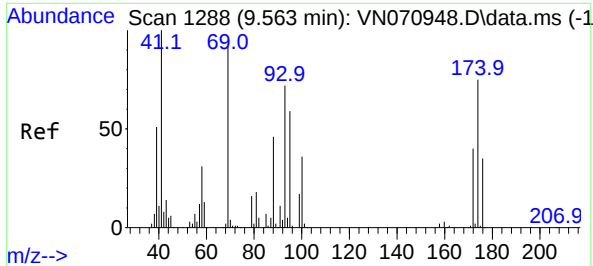
Tgt Ion: 63 Resp: 6714  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.7 37.1#



#48  
Methyl methacrylate  
Concen: 2.121 ug/l  
RT: 9.539 min Scan# 1284  
Delta R.T. -0.012 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion: 41 Resp: 22238  
Ion Ratio Lower Upper  
41 100  
69 0.6 72.4 108.6#  
39 0.0 58.4 87.6#

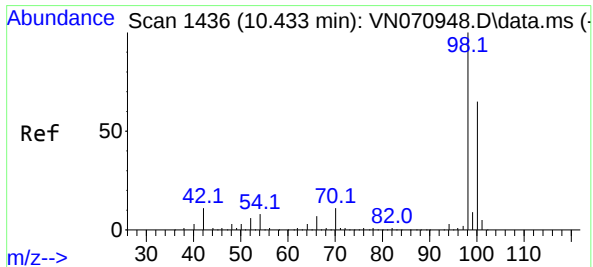
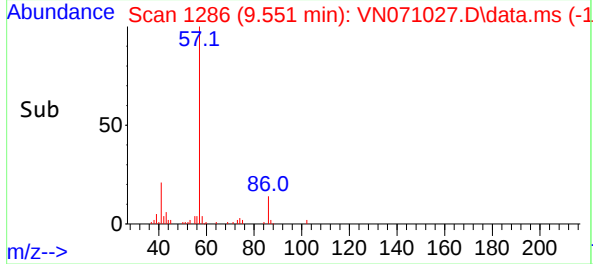
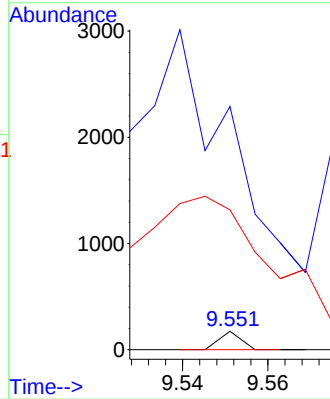
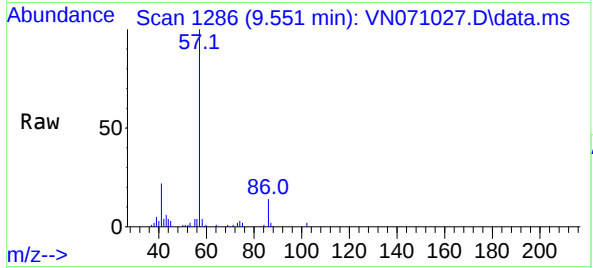




#49  
1,4-Dioxane  
Concen: 0.328 ug/l  
RT: 9.551 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

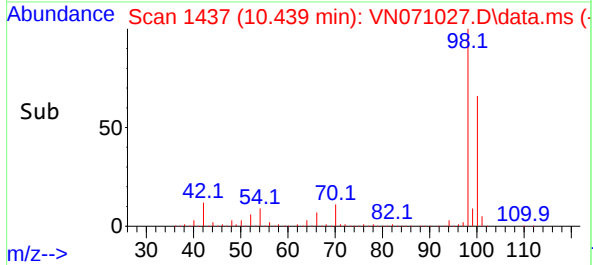
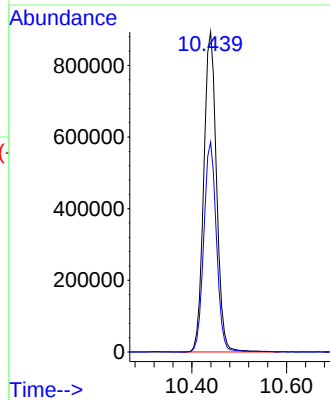
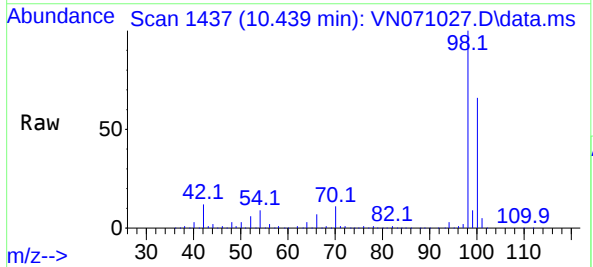
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

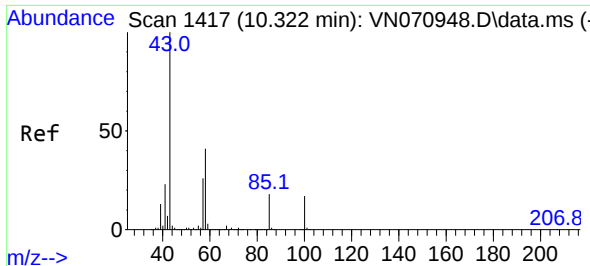
Tgt Ion: 88 Resp: 61  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.4 35.2#  
58 5831.1 50.6 75.8#



#50  
Toluene-d8  
Concen: 51.953 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.006 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion: 98 Resp: 1668955  
Ion Ratio Lower Upper  
98 100  
100 65.1 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 1.045 ug/l

RT: 10.328 min Scan# 1417

Delta R.T. 0.006 min

Lab File: VN071027.D

Acq: 22 Feb 2022 14:47

Instrument :

MSVOA\_N

ClientSampleId :

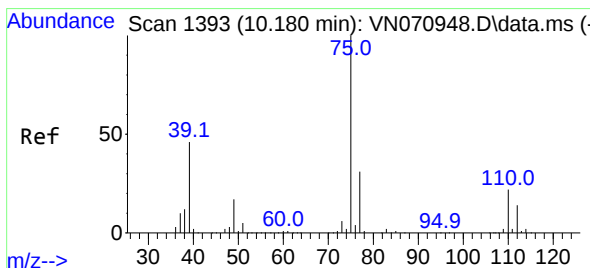
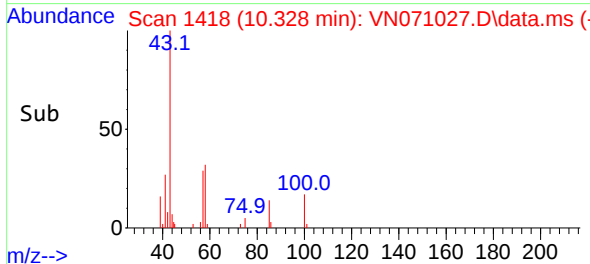
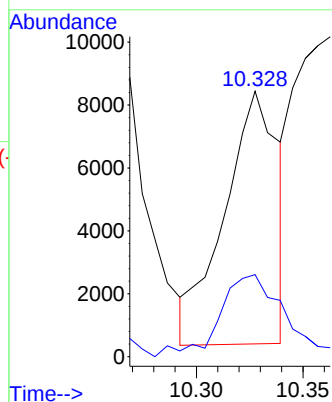
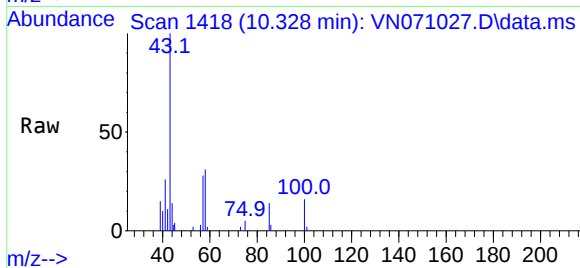
PB142839ZHE#01

Tgt Ion: 43 Resp: 14084

Ion Ratio Lower Upper

43 100

58 39.0 30.4 45.6



#54

cis-1,3-Dichloropropene

Concen: 7.911 ug/l

RT: 10.239 min Scan# 1403

Delta R.T. 0.059 min

Lab File: VN071027.D

Acq: 22 Feb 2022 14:47

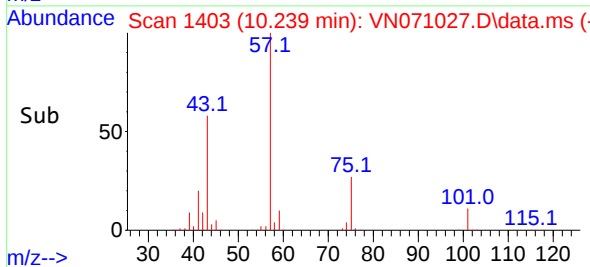
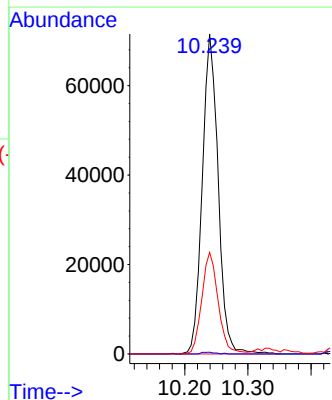
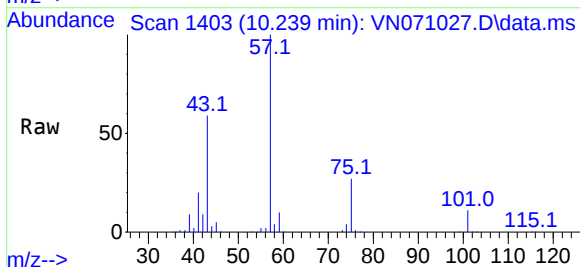
Tgt Ion: 75 Resp: 124768

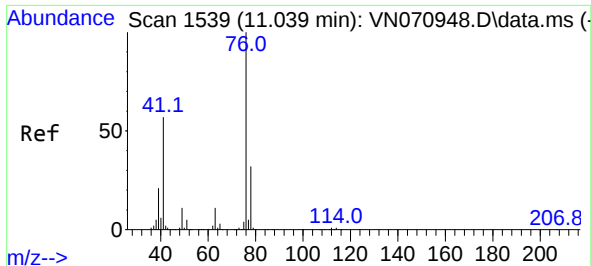
Ion Ratio Lower Upper

75 100

77 0.5 26.4 39.6#

39 31.7 42.5 63.7#





#57

1,3-Dichloropropane

Concen: 4.656 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN071027.D

Acq: 22 Feb 2022 14:47

Instrument :

MSVOA\_N

ClientSampleId :

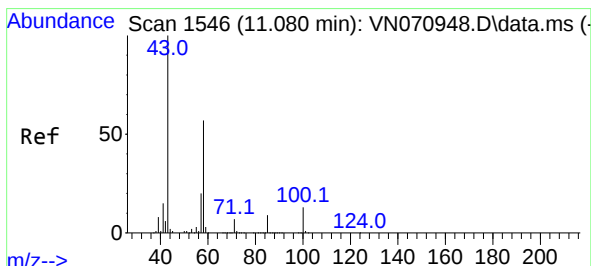
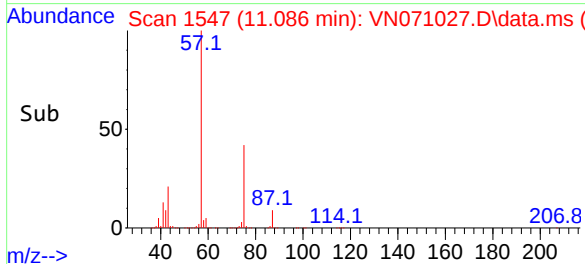
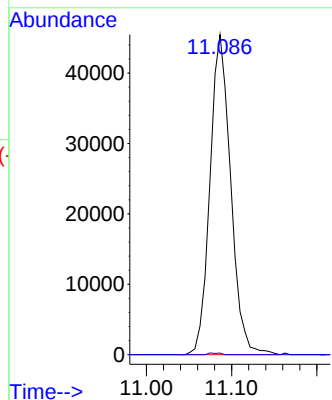
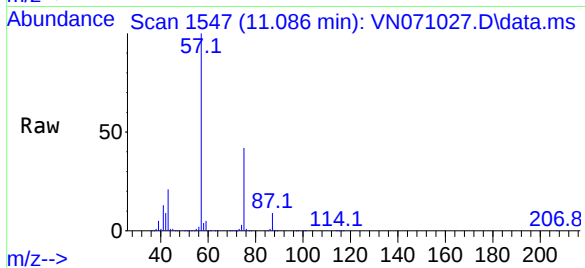
PB142839ZHE#01

Tgt Ion: 76 Resp: 76790

Ion Ratio Lower Upper

76 100

78 0.3 25.7 38.5#



#59

2-Hexanone

Concen: 125.289 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VN071027.D

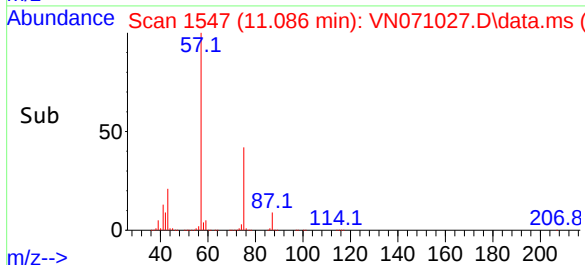
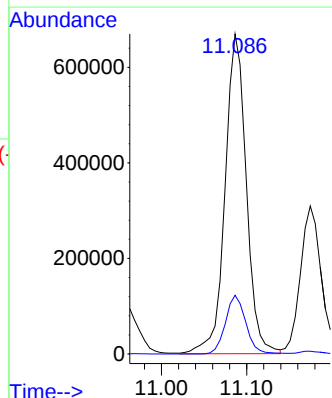
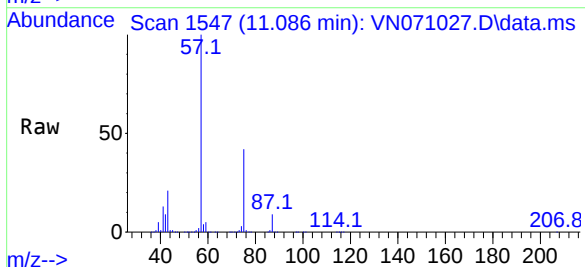
Acq: 22 Feb 2022 14:47

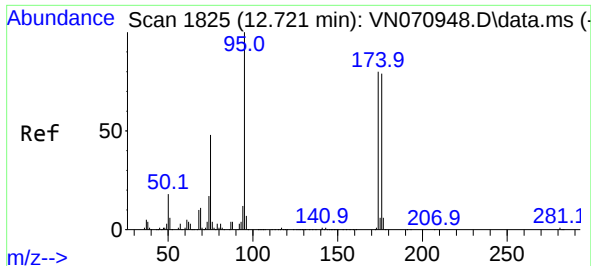
Tgt Ion: 43 Resp: 1161467

Ion Ratio Lower Upper

43 100

58 17.5 26.9 80.7#

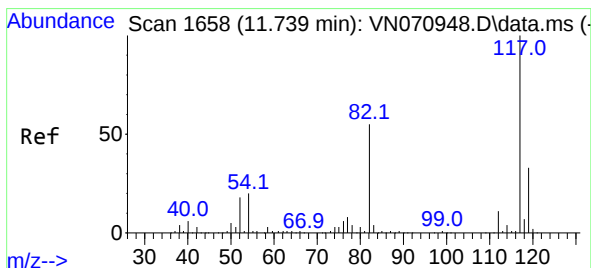
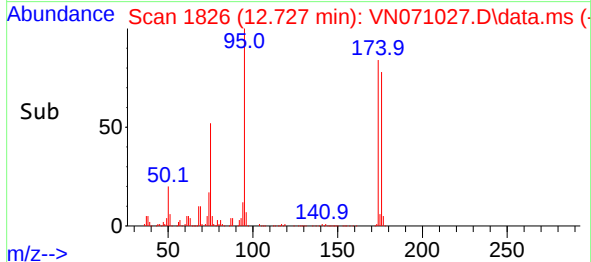
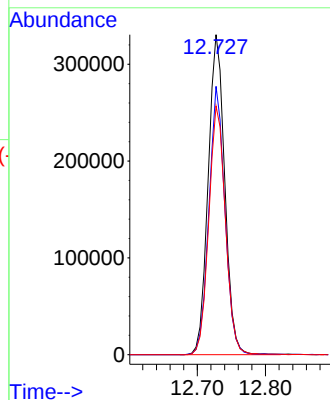
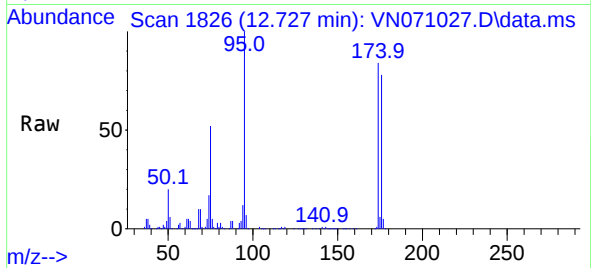




#62  
4-Bromofluorobenzene  
Concen: 48.676 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.006 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

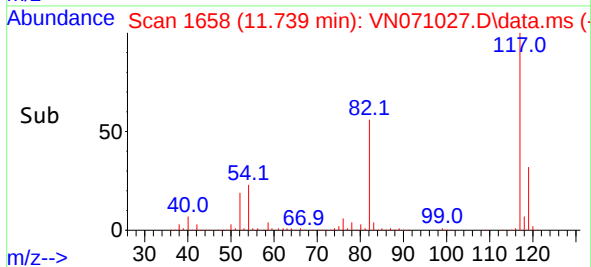
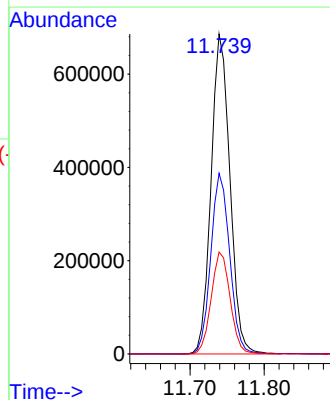
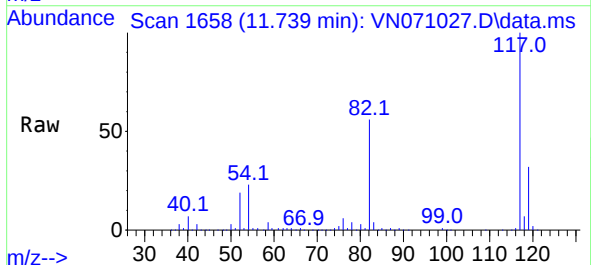
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

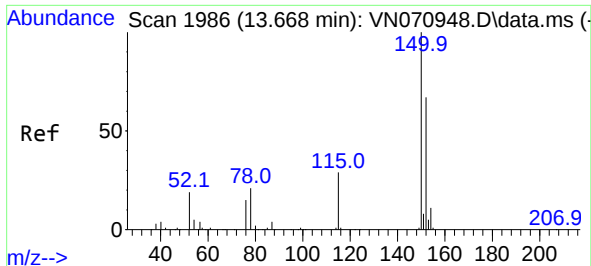
Tgt Ion: 95 Resp: 558925  
Ion Ratio Lower Upper  
95 100  
174 81.3 0.0 187.2  
176 77.8 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion: 117 Resp: 1211993  
Ion Ratio Lower Upper  
117 100  
82 56.4 42.4 63.6  
119 31.9 25.4 38.2

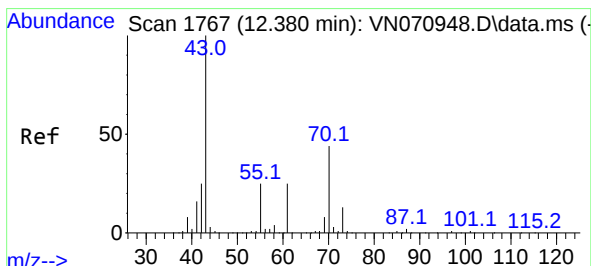
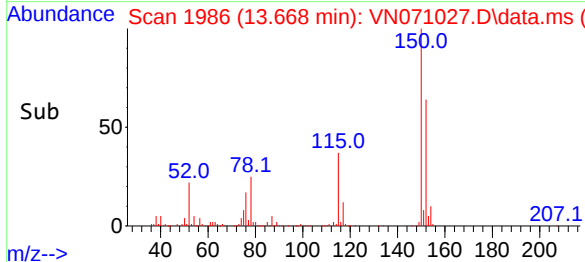
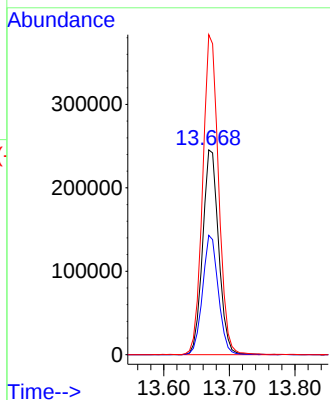
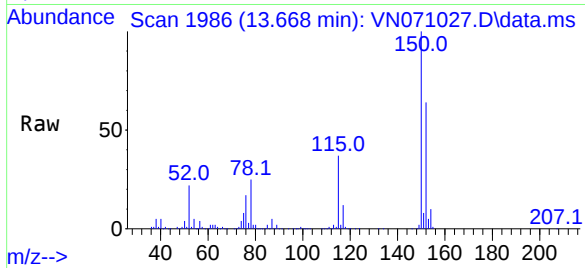




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.668 min Scan# 1986  
Delta R.T. 0.000 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

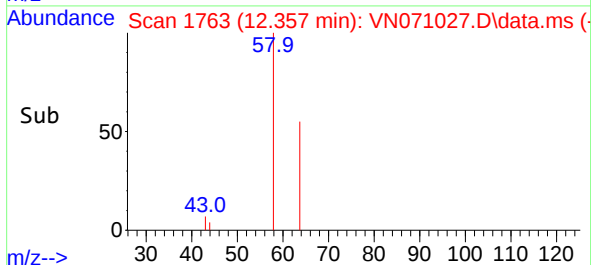
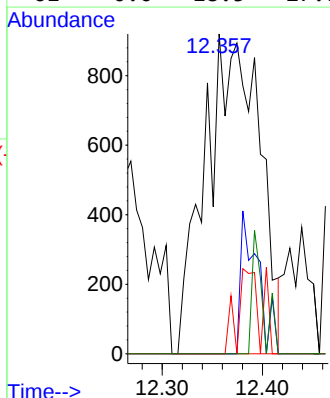
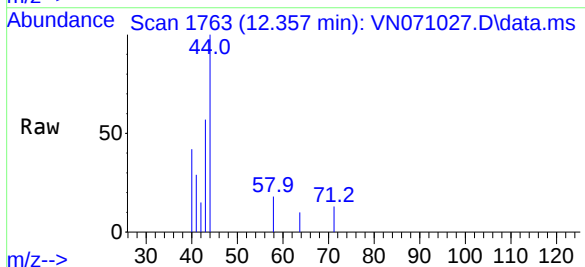
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

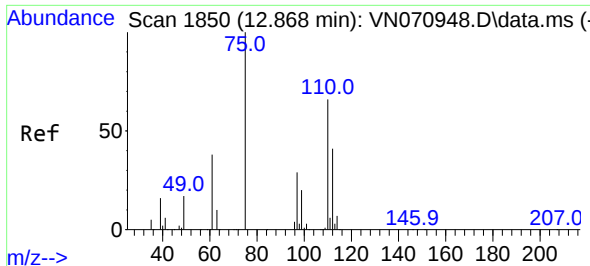
Tgt Ion:152 Resp: 416474  
Ion Ratio Lower Upper  
152 100  
115 57.5 27.5 82.5  
150 155.4 0.0 344.4



#74  
N-ethyl acetate  
Concen: 0.324 ug/l  
RT: 12.357 min Scan# 1763  
Delta R.T. -0.024 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion: 43 Resp: 3469  
Ion Ratio Lower Upper  
43 100  
70 0.0 33.4 50.0#  
55 0.0 19.3 28.9#  
61 0.0 18.5 27.7#

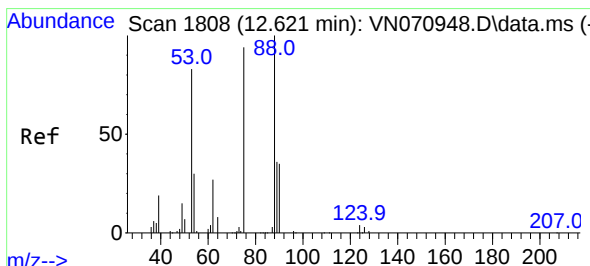
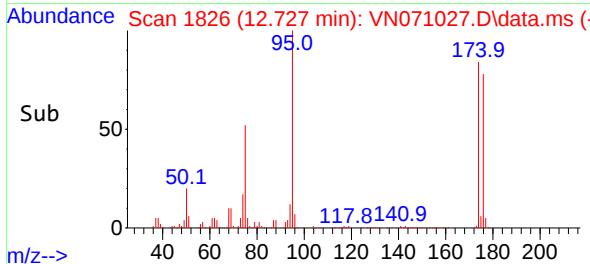
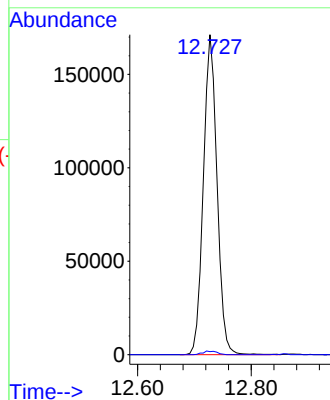
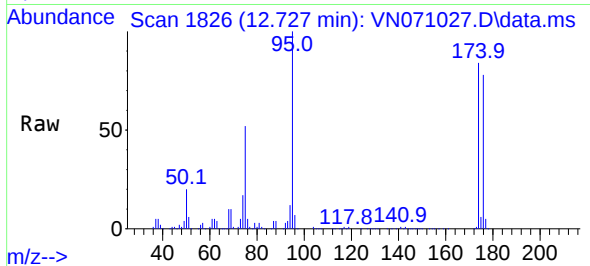




#76  
1,2,3-Trichloropropane  
Concen: 29.053 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.141 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

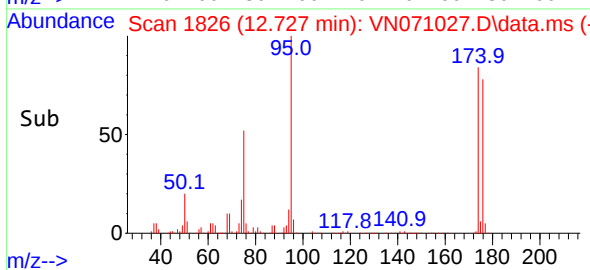
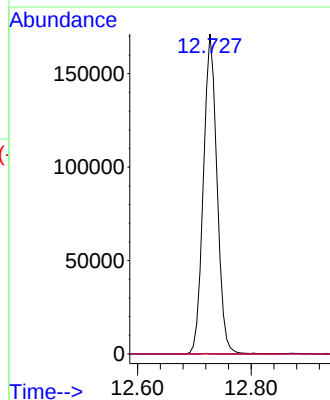
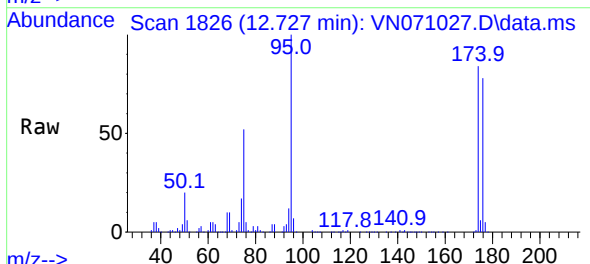
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

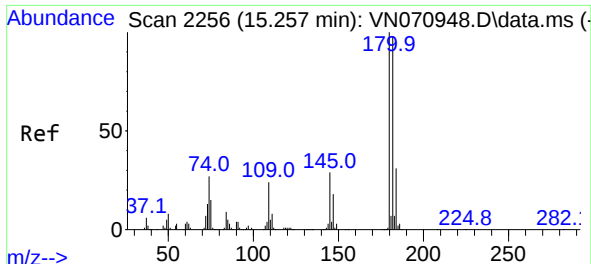
Tgt Ion: 75 Resp: 284889  
Ion Ratio Lower Upper  
75 100  
77 1.2 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 94.144 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.106 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion: 75 Resp: 284889  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#

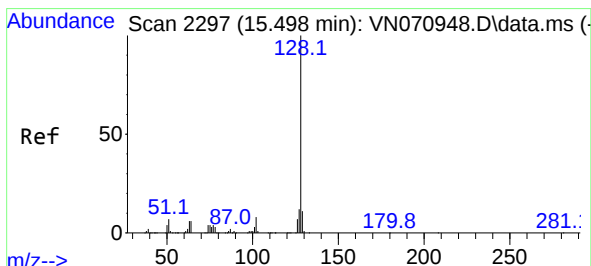
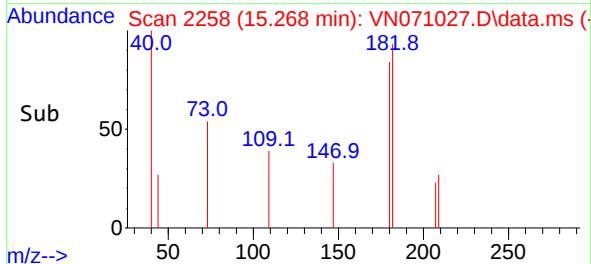
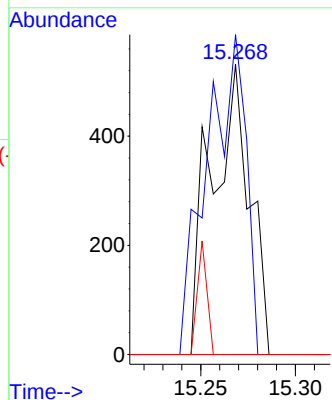
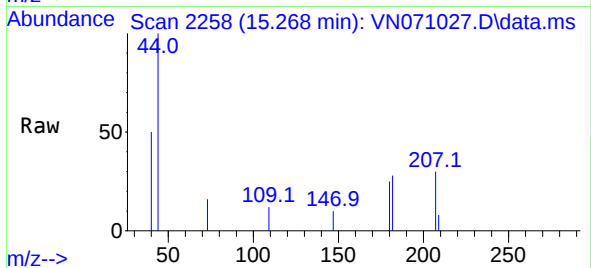




#93  
1,2,4-Trichlorobenzene  
Concen: 2.092 ug/l  
RT: 15.268 min Scan# 21  
Delta R.T. 0.011 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

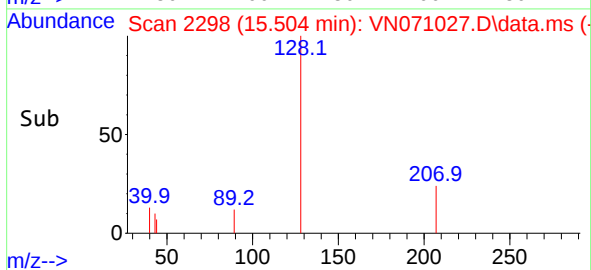
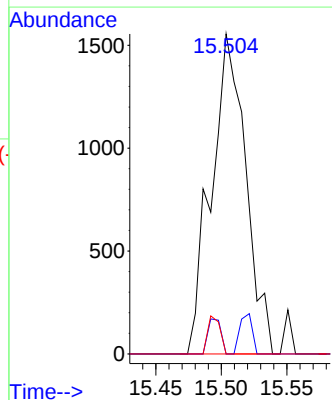
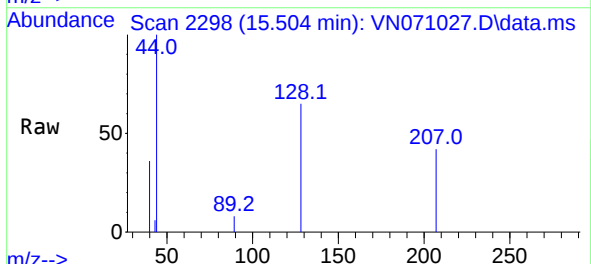
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB142839ZHE#01

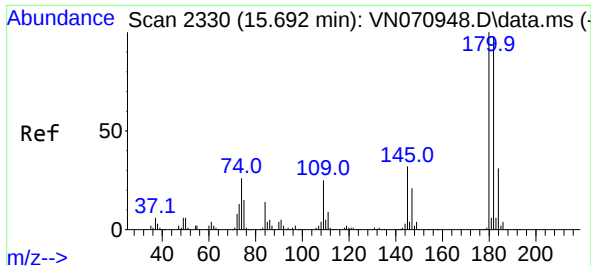
Tgt Ion:180 Resp: 743  
Ion Ratio Lower Upper  
180 100  
182 112.0 48.3 144.9  
145 9.8 14.5 43.5#



#95  
Naphthalene  
Concen: 5.127 ug/l  
RT: 15.504 min Scan# 2298  
Delta R.T. 0.006 min  
Lab File: VN071027.D  
Acq: 22 Feb 2022 14:47

Tgt Ion:128 Resp: 2851  
Ion Ratio Lower Upper  
128 100  
127 4.1 10.5 15.7#  
129 4.2 8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 2.633 ug/l

RT: 15.704 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN071027.D

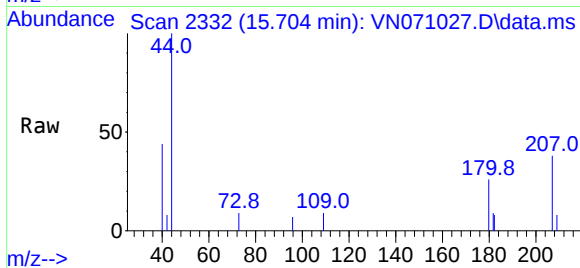
Acq: 22 Feb 2022 14:47

Instrument :

MSVOA\_N

ClientSampleId :

PB142839ZHE#01



Tgt Ion:180 Resp: 874

Ion Ratio Lower Upper

180 100

182 74.1 47.4 142.2

145 0.0 15.0 45.1#

